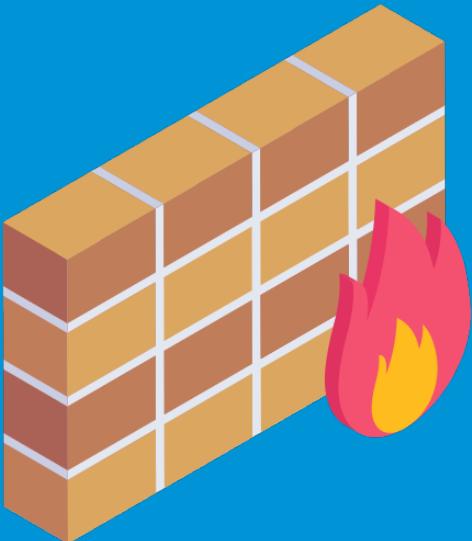


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SO BAD SO GOOD

TO BE DEFINED



SO BAD SO GOOD

You just enter the cyberpunk era, which is synonymous with spectacular technological innovations, but it is also haunted by constant threats.



In this dystopian world, corporations rule with absolute power, and one of the most powerful and feared is undoubtedly the Arasaka Corporation.

As a leader in security, advanced weaponry and cybernetic technologies, Arasaka remains an unyielding target, constantly under siege by a myriad of relentless enemies:

- ✓ rival factions,
- ✓ malicious fixers,
- ✓ rogue netrunners,
- ✓ cold sociopathic terrorists,
- ✓ and countless operatives seeking to exploit weaknesses and breach its defenses.



As a member of Arasaka's cybersecurity defensive team, your role is crucial. You must **implement a firewall** capable of protecting the corporation's vital infrastructure and assets, against a rising tide of cyber attacks.

Because battles occur both in the chaotic streets of Night City and in cyberspace, Arasaka must guard against continuous assaults from despicable bad guys.

Deploying and maintaining an effective firewall is therefore essential for ensuring Arasaka's survival and dominance.

Here are some challenges your firewall will face:

✓ **Strengthen Arasaka's Defenses**

The Voodoo Boys are attempting to infiltrate Arasaka's systems. Some protocols have been compromised, and hidden access points are multiplying. Our informants report unusual activity around specific communication channels used by netrunners for their covert incursions. Your mission is to secure these potential vulnerabilities before they strike at the very heart of the network.

✓ **Suspicious movements from Pacifica and other high-risk areas**

The streets of Night City are teeming with suspicious activity, especially in areas populated by rebel factions. Some areas, like Pacifica, are home to sharp, dangerous minds. Precise filtering is essential to prevent these intrusions from reaching the heart of Arasaka.

✓ **Limiting the flow of connections to protect the digital bastion**

Our informants speak of an increased threat of synchronized assaults by the Spectres. Overloading is their favorite weapon, and they strike without warning. Severe filtering of incoming connections could be the only bulwark against their tidal wave.

✓ **Securing vital areas, isolating for better defense**

The servers carrying our most sensitive secrets cannot be compromised under any circumstances. A strategic division of the network will ensure better resistance, as attackers will take advantage of the slightest weakness to penetrate our lines of defense.

✓ **Detect hidden transmissions in the information flow**

Maelstrom's cunning is matched only by their cruelty; their viruses hide like shadows in data packets. A sharp eye can eliminate intruders before they reveal themselves.

✓ **Limit external access to Arasaka's eyes only**

Employees traveling around the city expose the corporation to curious and dangerous eyes. Only those with the Arasaka key will be able to penetrate the defenses, as every access point becomes a potential weakness in the hands of our enemies.

✓ **Stop Militech's underhand explorations**

Militech agents are on the prowl, scanning our network for the slightest vulnerability. Invisible safeguards must detect their stealthy moves and ward them off before they can exploit any openings.

✓ **Keeping out non-Arasaka-approved tools**

Our protocols tolerate no parasites. Foreign applications, the tools of hacker gangs, have no place here. Any software outside Arasaka's standards must be discarded to maintain a clean network environment.

✓ Monitor outgoing traffic to identify traitors

Internal threats are often the most treacherous. Any outgoing transfer must be scrutinized, as infiltrators may try to extract our information undercover. Data leaks are not tolerated.

✓ Detecting and warning of impending attacks

Netrunners advance in the darkness, and their intentions are rarely peaceful. The firewall must react at the first warning and sound the alarm in the event of an intrusion, to give us time to act and reinforce our defenses.

Deliveries

1. Diagram of Arasaka's network and illustration of the secured zones.
2. Analysis of Arasaka's network security requirements.
3. Selection and design of the firewall architecture.
4. Implementation of the firewall and the WAF within Arasaka's Network.
5. A security audit of your network after it has been secured.



About the firewall

You have to use pfSense. A firewall widely used around the world.
To do this, use the terraform resource provided, create a new vm in it and use Ansible to install your firewall.



You can use ModSecurity to accomplish the WAF task.
Don't forget to get the resources in Gandalf.



Your server credentials have been sent to you by email.

Of course, all the deliveries must be in English. Make sure to use the appropriate vocabulary.

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